

**Commonwealth of Kentucky**  
**Division for Air Quality**  
**PERMIT APPLICATION SUMMARY FORM**

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General Information

Name:	Bluegrass Dairy and Food, LLC
Address:	606 W.Main Street, Kentucky 40069
Date application received:	July 23, 2004
SIC/Source description:	2023 Milk Condensed and Evaporated
AFS (10-digit) Plant ID:	21-229-00009/11649
Application log number:	APE20040001
Permit number:	F-04-038

Application Type/Permit Activity

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
<input type="checkbox"/> Administrative	<input type="checkbox"/> Title V
<input type="checkbox"/> Minor	<input type="checkbox"/> Synthetic minor
<input type="checkbox"/> Significant	<input type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input checked="" type="checkbox"/> Construction/operating

Compliance Summary

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input checked="" type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input checked="" type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input checked="" type="checkbox"/> Not major modification per 401 KAR 51:017, 1(23)(b) or 51:052,1(14)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☐ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

## Emissions Summary

Pollutant	Maximum Controlled Emissions (tpy)	Emission Potential (tpy)
PM	<b>33.84</b>	<b>596.57</b>
SO <sub>2</sub>	<b>0.06</b>	<b>0.06</b>
NO <sub>x</sub>	<b>10.04</b>	<b>10.04</b>
CO	<b>8.43</b>	<b>8.43</b>
VOC	<b>0.55</b>	<b>0.55</b>
LEAD	N/A	N/A

### Source Process Description:

The application from Bluegrass Dairy and Food, LLC (formerly known as Armour and Company) for addition of a new spray dryer (planned for installation in November 2004) was received on July 23, 2004 and was called complete on October 5, 2004. Further, inclusion of two natural gas fired indirect heat exchangers that were not included in their present permit (O-77-126) was requested. The Kewanee boiler is rated 12.5mmBtu/hr and the Continental boiler is rated 10.35mmBtu/hr. Both boilers use natural gas with propane as a backup fuel source and were installed in 1962. The proposed dryer has a maximum fuel input capacity of 7 million British thermal units per hour (mmBtu/hr) while the existing dryers have a maximum fuel input capacity of 5mmBtu/hr. Both the existing dryers as well as the proposed dryer are each equipped with a cyclone and scrubber. The scrubbers are designed to capture particulate emissions that escape the cyclones. The cyclone is an integral part of the product recovery process and is not considered an air pollution device. The facility operates a small pilot dryer and six space heaters throughout the plant, which range in size from 36,000Btu/hr to 144,000 Btu/hr, the emissions of which have been determined as insignificant based on emission calculations.

For the final product, the facility operates 2 bagging processes and plans to add another one for the proposed dryer. The bagging processes are controlled inside the building and generate a minimal amount of particulate matter emissions

The source has agreed to take federally enforceable limitations to preclude applicability of 401 KAR 52:020. The source will limit its annual tons particulate matter emissions to less than or equal to 90 tons/yr. This unit is undergoing public comment since their potential to emit PM emission is 596 tons/yr.